



PATENT
Attorney Docket No. INT04-001US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Peter Onody

Group Art Unit: 2816

Application No. 10/817,499

Examiner: Le, Dinh Thanh

Filed: April 2, 2004

For: TUNABLE SALLEN-KEY FILTER STAGE AND FILTER ASSEMBLY

INFORMATION DISCLOSURE STATEMENT

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is material, relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

- ☐ **within** any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

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- ☐ **after** (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes *one* of:
- ☐ the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
- or*
- ☐ the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☒ **after** the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
- ☐ **after** the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and **within** thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).

NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.

Copies of the References

- ☐ Copies of the references listed on the enclosed Form 1449 are enclosed herewith. Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).
- ☒ The filing date of the subject application is after June 30, 2003. Therefore, copies of U.S. patents and patent applications that are listed on the accompanying Form 1449 are not enclosed herewith in accordance with the U.S. Patent and Trademark Office's waiver of the requirement under 37 CFR 1.98 (see Official Gazette Notice of August 5, 2003). Copies of other references identified on the accompanying Form 1449 are enclosed herewith.
- ☒ A copy of the foreign search report is enclosed herewith.
- ☐ The references listed on the enclosed Form 1449 were previously identified in the parent application(s) of the present application, and copies of the references were furnished at that time. Accordingly, additional copies of the references are not submitted herewith, so as not to burden the file with duplicate copies of references. The Examiner is respectfully requested to carefully review the references in accordance with the requirements set out in the Manual of Patent Examining Procedure. In accordance with 37 CFR 1.98(d), the details of the parent application(s)

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relied upon for an earlier filing date under 35 USC 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

Statement under 37 CFR 1.97(e)

- ☒ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.
- ☐ The **undersigned** hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Statement under 37 CFR 1.704(d)

- ☐ The **undersigned** hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Fees

- ☐ No fee is owed by the applicant(s).
- ☒ The **IDS Fee of \$180** under 37 CFR 1.17(p) is enclosed herewith.

Method of Payment of Fees

- ☒ Attached is a check in the amount of \$180.00.
- ☐ Charge Deposit Account No. 503-594 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)

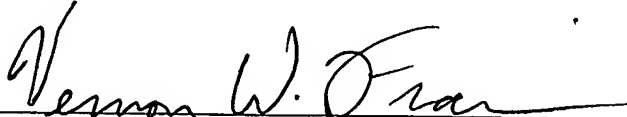
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Authorization to Charge Additional Fees

- ☒ If any additional fees are owed in connection with this communication, please charge Deposit Account No. 503-594. (A duplicate copy of this communication is enclosed for that purpose.)

Instructions as to Overpayment

- ☒ Credit Account No. 503-594.
☐ Refund


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FORM PTO-1449
MODIFIEDU.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
INT04-001US(P2083US)SERIAL NO.
10/817,499INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

APPLICANT
OnodyFILING DATE
April 2, 2004GROUP
2816

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NUMBER	ISSUE DATE	NAME	CLAS S	SUBCLASS	FILING DATE IF APPROPRIATE
	5418492 A	05/23/1995	Wang et al			10/01/1992
	6100766	08/08/2000	Yuji Segawa et al			11/17/1997
	4983931	01/08/1991	Masaji Nakano			06/27/1990

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO*
	EP 0549354 A	06/30/1993	EU				X
	EP 1326336 A	07/09/2003	EU				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Peng-Un Su, et al., "A Dual-Band Enhanced Harmonic Rejection Filter for Modulators in GSM and DCS Transmitters" European Solid-State Circuits, 2003. ESSCIRC '03. Conference on 16-18 September, 2003, Piscataway, NJ, USA, IEEE, September 16, 2003, pages 663-666, XP010678502, ISBN 0-7803-7995-0
	Elwan H. et al., "A New Generation of Global Wireless Compatibility", IEEE Circuits and Devices Magazine, IEEE Inc. New York, US vol. 17, no. 1, January 1, 2001, pages 7-19, XP001102313, ISSN: 8755-3996
	Wang et al., "Methodology for Building Tunable Integrated Low-pass Analog Filters", IBM Technical Disclosure Bulletin, IBM Corp., New York, US, October 1, 1992, pages 103-106, XP000312902, ISSN: 0018-8689
	Sallen R.P. et al, "A Practical Method of Designing RC Active Filters", IRE Transactions on Circuit Theory, IEEE Inc., New York, US, vol. 2. March, 1955, pages 51-62, XP001026856
	Chao-Shiun Wang et al., "A CMOS Low-IF Programmable Gain Amplifier with Speed-enhanced DC Offset Cancellation", ASIC, 2002. Proceedings, 2002 IEEE Asia-Pacific Conference on August 6-8, 2002, Piscataway NJ, USA, IEEE, 6 August 2002, pages 133-136, XP010602811, ISBN 0-7803-7363-4
	Search Report-European Application #05252079.8-2215, dated September 5, 2006
	Yannis P. Tsvividis, "Integrated Continuous-Time Filter Design-An Overview", 8107 IEEE Journal of Solid-State Circuits, IEEE Service Center, Piscataway, NJ, US, vol. 29, no. 3, March 1, 1994 (1994-03-01), pages 166-176, XP000452103, ISSN:0018-9200

EXAMINER:

DATE CONSIDERED:

*A concise statement of relevance is being submitted in lieu of a translation. 37 CFR § 1.98(b).
1449FORM (Rev. 7/15/1999)